

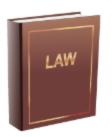
2017 Indiana FirstNet Conference FirstNet and Rural Public Safety

Jamel Vinson (Govt. Affairs)

John Hunt (State Consultation)

Implementing the Vision





THE LAW

2.22.12

FirstNet becomes law PL 112-96

GOVERNANCE



The FirstNet Board has 15 members, including those with telecommunications and public safety backgrounds

Each Governor appoints 1 Single Point of Contact (SPOC) and governing body to represent the State's interests to FirstNet.

43 member Public Safety Advisory Committee (PSAC) advises FirstNet on public safety intergovernmental matters.

FUNDING



\$7B authorized to build the FirstNet network. Funded by spectrum auctions through 2022.

BAND CLASS (BC) 14

20MHz of bandwidth has been dedicated to public safety in the prime upper

700MHz frequency range.



BC 17 BC 12		BC 17 BC 29 BC 12			BC 13	BC 14	LMR	BC 13	BC 14	LMR
Mobile Mobile Sections Mobile Mobi	AT&T)))))	AT&T dish	Mobile Scellular US Cellular	атат ∭	Verizon 🕌	PS Broadband FirstNet	PS Narrowband	Verizon N	PS Broadband FirstNet	PS Narrowband
UL	UPLINK	DOWNLINK	DL	DOWNLINK	DOWNLINK	DOWNLINK		UPLINK	UPLINK	
6 MHz	12 MHz	12 MHz	6 MHz	12 MHz	11 MHz	10 MHz	6 MHz	11 MHz	10 MHz	6 MHz
							_ 1	MHz Guard B	ands ———	

The Network

- Provide nationwide coverage, including rural and remote areas
- Meet public safety requirements
 - provide priority and preemption during emergencies
- Build in resiliency and reliability
- Evolve with technology to provide access to applications and innovative services









Rural Coverage Requirement



Public Law 112-96- Feb. 22, 2012

Middle Class Tax Relief and Job Creation Act of 2012 "Rural Coverage -- In carrying out the duties and responsibilities of this subsection, including issuing requests for proposals, [FirstNet] shall require deployment phases with substantial rural coverage milestones as part of each phase of the construction and deployment of the network."

47 U.S.C. § 1426 (b)(3).

Definition of Rural



Rural Electrification Act:

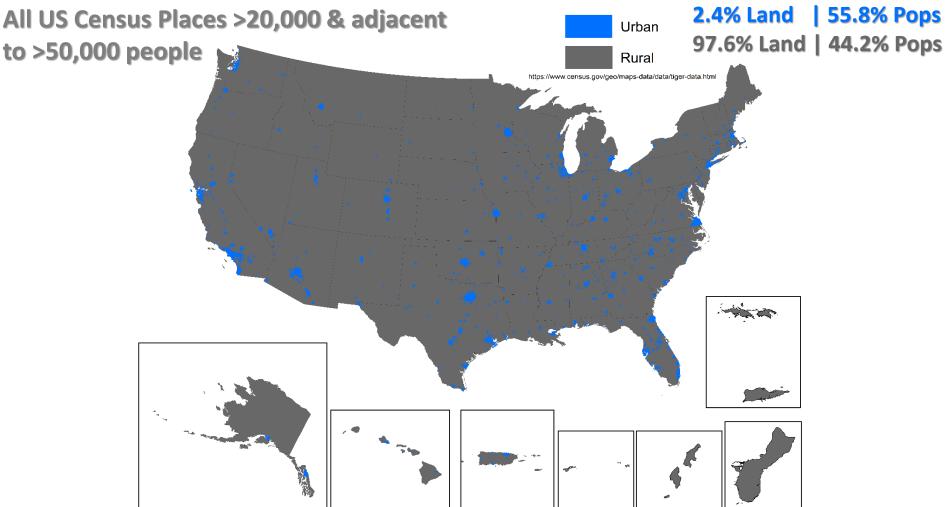
- FirstNet defines "rural" as having the same meaning as "rural area" in Section 601(b)(3) of the Rural Electrification Act of 1936, as amended.
- Rural Electrification Act "Frontier" classification not adopted by FirstNet

In short, a rural is defined as:

- A city, town or incorporated area that has a population of less than 20,000
- Any area that is not contiguous and adjacent to a city or town with greater than 50,000 inhabitants

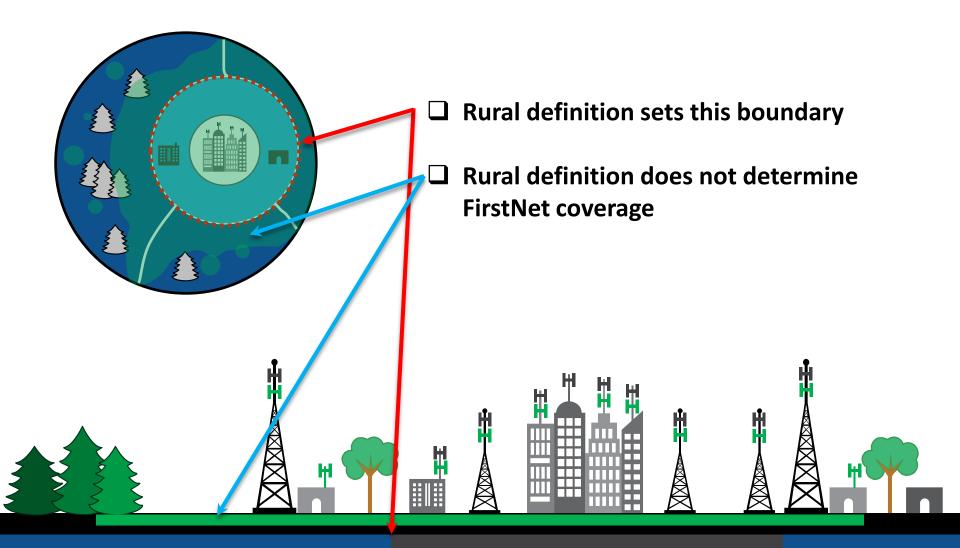
Mapping the Results





Significance of Rural Definition





FirstNet RFP Proposed Rural Milestones





- IOC-2 (12 months) 20% of Contractor's proposed Band 14 Coverage in rural areas
- IOC-3 (24 months) 60% of Contractor's proposed Band 14 Coverage in rural areas
- **IOC-4 (36 months)** 80% of Contractor's proposed Band 14 Coverage in rural areas
- **IOC-4 (48 months)** 95% of Contractor's proposed Band 14 Coverage in rural areas
- **FOC (60 months)** 100% of Contractor's proposed Band 14 Coverage in rural areas

IOC = Initial Operating Capacity

FOC = Final Operating Capacity





All inclusive vision building on economies of scale to target COTS pricing and availability



























Types

- Smartphones
- Tablets
- Feature phones
- Ruggedized
- All operating systems

- In Vehicle Routers
- Hotspots / MDTs
- Modems
- High Power UE/ Vehicle Network System
- Range extension / rural / repeaters
- Satellite fallback

- Hybrid
- Wearables
- Hands free
- Gloved usage

Connectivity

- LTE, 3G, Satellite
- Wi-Fi, Wi-Gig
- NFC
- Bluetooth
- Tethering

- LTE, 3G, Satellite
- Wi-Fi
- Ethernet
- USB

- LTE, 3G, Satellite
- Wi-Fi, Wi-Gig
- NFC
- Bluetooth
- LMR / P25

Current Band 14 Support

Only a few

Only a few

More to come

Roadmap Vision



HEALTH









Existing Technology





Today



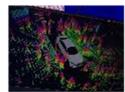
Band 14 Mission **Critical**







5G Relay Latency Resiliency Redundancy





High Priority Applications





FirstNet Network Benefits





Dedicated to Public Safety



Public Safety
Apps /
Services





Situational Awareness





Local Control



Public Safety Grade

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State Single Points of Contact (SPOC):

www.firstnet.gov/consultation

Public Safety Advisory Committee (PSAC):

www.firstnet.gov/about/public-safety-advisory-committee

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Transforming public safety communications







